

NOVATTE® NVIDIA® TESLA™ GPU PRODUCT LINE



DEVELOPER WORKSTATION™ TT100

NOVATTE® PERSONAL SUPERCOMPUTER™

EXXTREME™ SERVERS

TESLA™ GPU START-UP CLUSTER™

TESLA™ GPU HIGH PERFORMANCE CLUSTER™

- ▲ Widest selection of products customized to fit your application and budget
 - ▲ Expert technical help desk and single point of contact for support
 - ▲ NVIDIA® Tesla™ and Intel® Xeon® in one box
 - ▲ Free products' test drive available
 - ▲ Reduce your up-front hardware investment
 - ▲ Get unequaled FLOPS-per-dollar/per-watt

 **NOVATTE**
creating parallel worlds

Want NVIDIA® and Intel® in one box?

NOVATTE combines the next generation NVIDIA® Tesla™ GPU and Intel® Xeon® CPU technologies in a turn-key, self-contained GPU solution.

NVIDIA® TESLA™ GPU TECHNOLOGY

Designed for high performance computing,
NOVATTE GPU products leverage cutting-edge NVIDIA® Tesla™ GPU technology:



- ▲ Up to 448 parallel processor cores per GPU
- ▲ Single Precision performance of up to 1,030 GFLOPS per GPU
- ▲ Double Precision performance of up to 515 GFLOPS per GPU

For high quality, professionalism and expertise in high-performance computing, NOVATTE holds **NVIDIA® Tesla™ Preferred Provider status.**

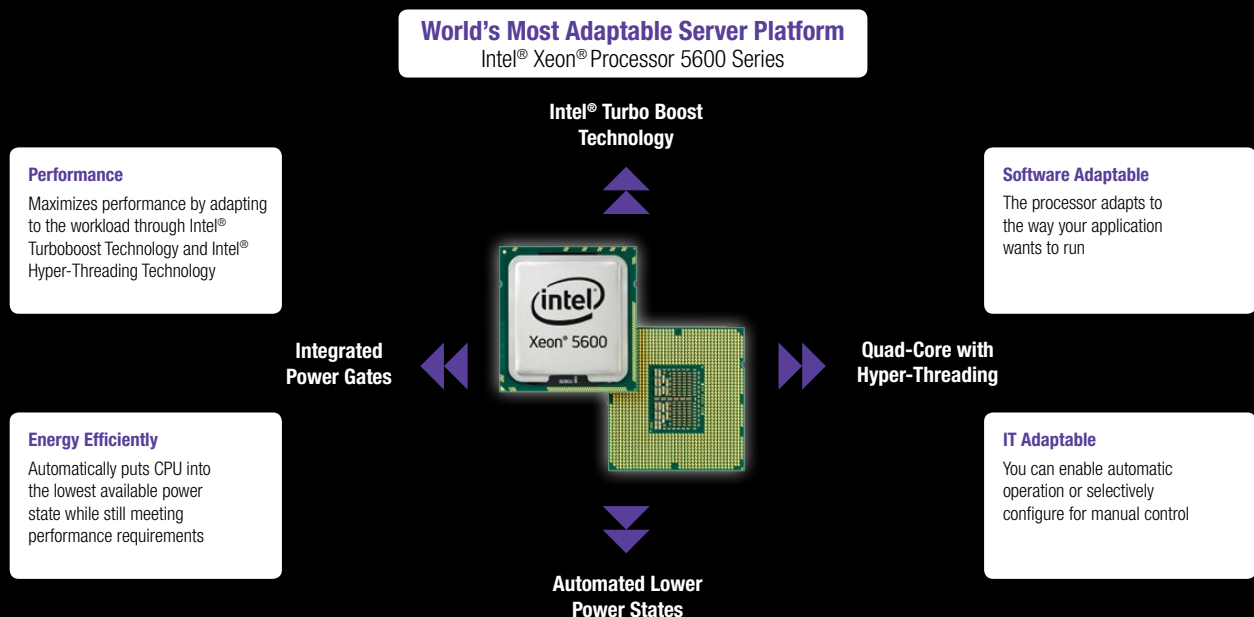
INTEL® XEON® PROCESSOR TECHNOLOGY

Intel® Xeon® Processor 5600 Series -

The next Generation of intelligent server processors is now available!

NOVATTE GPU products utilize the power of the Intel® Xeon® processor Westmere-EP 5600 series:

- ▲ Up to 6 multithreading cores (12 threads)
- ▲ 12MB L3 cache per processor



NOVATTE® DEVELOPER WORKSTATION™ TT100

The Professional Solution for CUDA Software Engineers

Optimized for both CUDA beginners and experienced CUDA application developers

Priced to fit any budget, Developer Workstation™ is a professional solution for software engineers and programmers who develop applications on the revolutionary NVIDIA® CUDA™ parallel computing architecture.

Available for a test drive! - Watch NOVATTE® Developer Workstation™ in action with our free products' trial



Model	TT100
Number of GPUs	1 GPU
GPU Single Precision	Up to 1 TFLOPS
GPU Double Precision	Up to 515 GFLOPS
GPU Cores	Up to 448
Memory	Up to 96 GB

Program in widely accepted, easy to learn CUDA with NOVATTE® Developer Workstation™ TT100

NVIDIA® CUDA™ Technology:

- ▲ The only C language environment for GPUs
- ▲ The world's leading application development platform for many-core solutions
- ▲ Enhances performance by offloading computationally-intensive activities from CPU to the GPU

NOVATTE[®] PERSONAL SUPERCOMPUTER[™]

Do MORE with LESS

Tailored to your unique requirements

- ◆ Choose from Intel[®] Xeon[®] Processor and NVIDIA[®] Tesla[™]/Tesla[™] Fermi[™] options
- ◆ Optional InfiniBand: Single / Dual-port QDR (40 Gb/sec) or DDR (20 Gb/sec)
- ◆ Optional Accessories: Configurable for up to two monitors, USB mouse and PS2 keyboard

Arrives with NOVATTE added value

- ◆ Expert technical support via phone, online and on-site
- ◆ Two-year standard warranty plus one optional, additional year's warranty
- ◆ HPC consulting and professional services available
- ◆ Flexible finance options

Available
for a test
drive!



Model	TT200	TT300	TT400
Number of GPUs	2 GPUs	3 GPUs	4 GPUs
GPU Single Precision	Up to 2 TFLOPS	Up to 3 TFLOPS	Up to 4 TFLOPS
GPU Double Precision	Up to 1.03 TFLOPS	Up to 1.545 TFLOPS	Up to 2.06 TFLOPS
GPU Cores	Up to 896	Up to 1,344	Up to 1,792
Memory	Up to 192 GB	Up to 192 GB	Up to 192 GB

NOVATTE[®] Personal Supercomputer[™] designed with your industry in mind:

Molecular dynamics, CAD, drugs discovery, virus simulation, DNA sequence analysis, seismic and geological simulations for the oil industry, Web search, fluid and gas dynamics, financial derivatives forecasting... and hundreds of other applications (http://www.nvidia.co.uk/object/vertical_solutions_uk.html) not included on this list.

NOVATTE® EXXTREME™ SERVERS

Unequaled FLOPS-per-dollar/per-watt

This unique configuration speeds up a wide variety of applications by up to two orders of magnitude or more (compared to traditional quad-core CPU-based servers)

Available
for a test
drive!



Model	X2000	X4000	X8000
Number of GPUs	2 GPUs	4 GPUs	8 GPUs
GPU Single Precision	Up to 2 TFLOPS	Up to 4 TFLOPS	Up to 8 TFLOPS
GPU Double Precision	Up to 1.03 TFLOPS	Up to 2.06 TFLOPS	Up to 4.12 TFLOPS
GPU Cores	Up to 896	Up to 1,792	Up to 3,584
Memory	Up to 192 GB	Up to 192 GB	Up to 144 GB
HDD	Up to three 3.5" SATA	Up to eight 3.5" SATA	Up to two 2.5" SATA / one 3.5" SATA
Power Supply	1400W	1400W	2400W

FEATURES & BENEFITS

1. **Performance:** Up to 8 TFLOPS in 4U!
2. **Efficiency:** Gold-level power supplies and advanced cooling
3. **Flexibility:** Intel® Xeon® Processor options, NVIDIA® Tesla™/Tesla™ Fermi options
4. **Reliability:** Highly reliable thermal optimization; hot swappable, easily serviceable redundant components
5. **Manageability:** Intelligent server IPMI management tool with GPU cooling control and remote management capability
6. **NOVATTE Help Desk:** Expert technical support via phone, online and on-site

NOVATTE® TESLA™ GPU CLUSTERS

The Self-contained Turn-key Solution

NOVATTE Tesla GPU Cluster combines massively parallel GPUs with multi-core CPUs in a single system and comes with professional HPC services and support

Achieve peace of mind with the NOVATTE “no worries”, all-in-one solution.

- ▲ Expert sales consultants who understand your needs
- ▲ Single point of contact for support and personal account manager
- ▲ Support 24/7 and on-site
- ▲ Full range of professional services - From system design to cluster management
- ▲ Solution thoroughly tested and tuned for maximum performance by the NOVATTE R&D team

Choose from the following configurations of the NVIDIA Tesla GPU preconfigured clusters and customize them to your needs

NOVATTE® Tesla™ GPU Start-Up Cluster™



Rack	24U
GPU / CPU Cores	9,600 GPU / 40 CPU
GPU Performance	Up to 41.4 TFLOPS
Memory	Up to 480 GB
External I/O	Infiniband DDR / 10 Gigabit Ethernet / 1 Gigabit Ethernet

NOVATTE® Tesla™ GPU High-Performance Cluster™



Rack	42U
GPU / CPU Cores	19,200 GPU / 80 CPU
GPU Performance	Up to 82.8 TFLOPS
Memory	Up to 960 GB
External I/O	Infiniband DDR / 10 Gigabit Ethernet / 1 Gigabit Ethernet

TEST DRIVE

Watch NOVATTE® products in action. Experience the extreme computing power enabled by NOVATTE® NVIDIA® Tesla™ GPU products with our free test drive.

NOVATTE offers you the opportunity to evaluate GPU Workstations prior to purchasing - **FOR FREE!** Learn first-hand how NOVATTE GPU workstation can save your time and improve productivity.

CONTACT US TO TRY NOW!

Call NOVATTE line +65 6275 1393 or e-mail at sls@novatte.com

NOVATTE – EXPERTS IN HIGH PERFORMANCE COMPUTING

“NOVATTE engineered a personalized GPU cluster solution that was the best response to our needs of computing power, energy efficiency and budget requirements. NOVATTE technical support team demonstrated deep technical knowledge and expertise, and ensured success of every phase of cluster procurement.”

Dr. LIU Weiguo,
Centre for Advanced Media Technology
Nanyang Technological University

Learn More

For more information on the NOVATTE GPU product line, visit www.novatte.com/solutions/gpu-computing



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